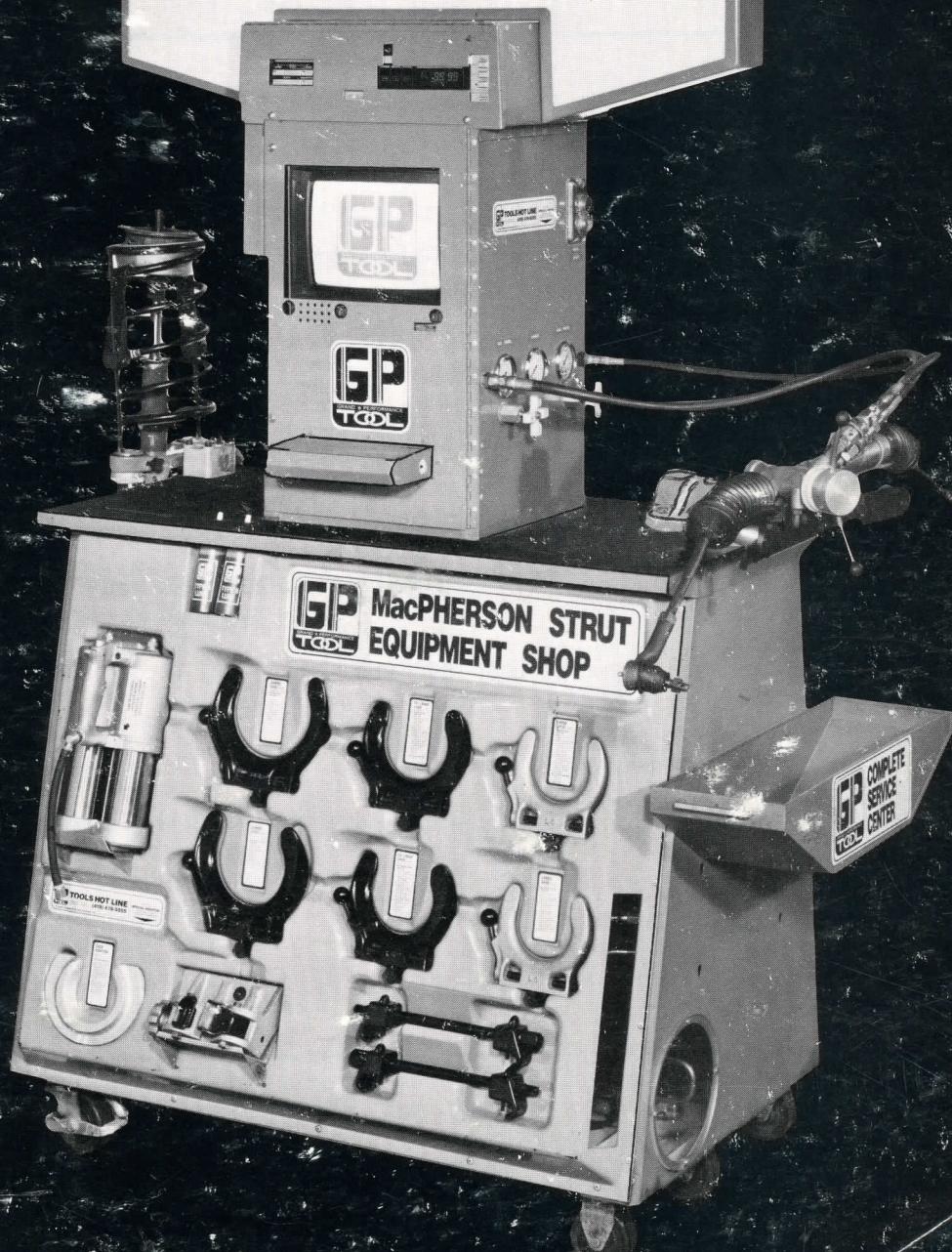


Grand
Performance
Tools



Computerized
**MacPHERSON STRUT
RACK AND PINION**



Service Bay Equipment

Return On Investment Analysis

Updated 2/14/84

Gross Margins For Installation Service

According to a recent survey conducted by Chilton Publications (Oct. 1981 Issue Automotive Marketing), various services in the bay area were evaluated. The following figures

clearly illustrate the tremendous impact of struts relative to service bay profitability:

*Wheel Alignment	74.7%
*Wheel Balancing	51.0%
*Struts	49.8%
*Disc Brakes	49.0%
Exhaust Pipes	47.7%
Electronic Tune-up	47.6%
Drum Brakes	47.2%
Standard Tune-up	45.8%
Muffler	44.3%
Fuel Pump	43.0%

*Top 4 jobs support each other

1. Wheel Alignment

Average cost of equipment \$20,000.00
Average cost charged per job (front end) \$30.00
Gross Margin (74.7%) \$22.41
Number of jobs required for return on investment **892 jobs**

GP2030 PST Set
\$574.38
120.00
59.76
10 Jobs

GP1010-MES Mobile Equipment Shop
\$2,772.60
120.00
59.76
46 Jobs

2. Wheel Balance

Average cost of equipment \$3,500.00
Average dollar charged per job (two wheels) \$10.00
Gross Margin (51.0%) \$5.10
Number of jobs required for return on investment **686 Jobs**

GP1010-B Wall Board Set
\$1,897.70
120.00
59.76
32 Jobs

GP1010-MES-C Computerized Strut Shop
\$5,455.39
120.00
59.76
91 Jobs

3. Struts

Cost of Kloster GP1010-S2 Shoe Set \$558.04
*Average dollar charged (2 struts) \$120.00
Gross Margin (49.8%) \$59.76
Number of jobs required for return on investment **9 Jobs**

Over the next five years the growth rate in MacPherson strut service will advance the profitability of MacPherson strut repairs to #1 gross margin service

bay profitability, and the cost of getting in is lower than the top eight services being performed at present.

What does your current strut program look like?

May we please be of help?

GP 1009-S2

Zip Pirates™

MacPherson Strut Spring Hook Compressor



GP Tool offers the finest quality hook/bolt method for compressing strut springs. The GP 1009 makes the difficult job of removing the coil spring a simple and safe job. The high strength quality hooks are equipped with the detent lock feature found only on the GP 1009. Safe-Fast-Efficient.

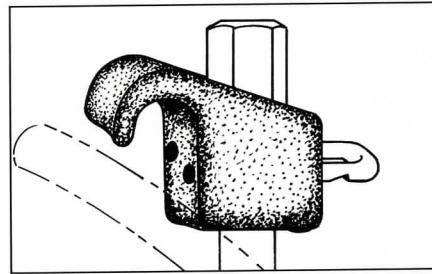
Wide surface contact—Keeps assembly in vertical position.

SPECS: Safety lock feature and high quality, heat treated alloy steel thrust screws make this unit acceptable for use with an impact wrench.

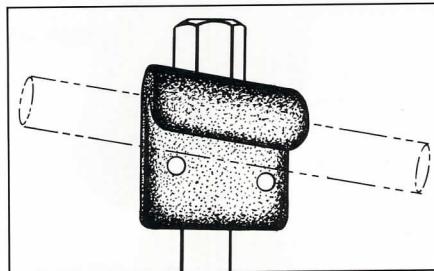
Steel safety latch
Quality materials—Almag 35
Heat treated alloy thrust screw 4140
Threaded steel bushing
Helical hook design for wide application
Fits all MacPherson strut springs
Optional long thrust bolts for spring changing work. Part No. GP1009-B
Drive at both ends of thrust screws



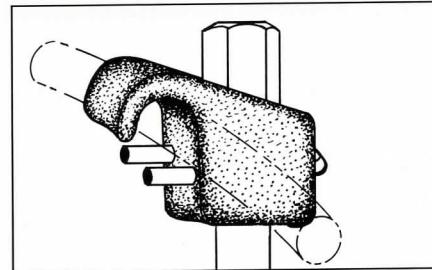
Mount hooks 180° around from each other



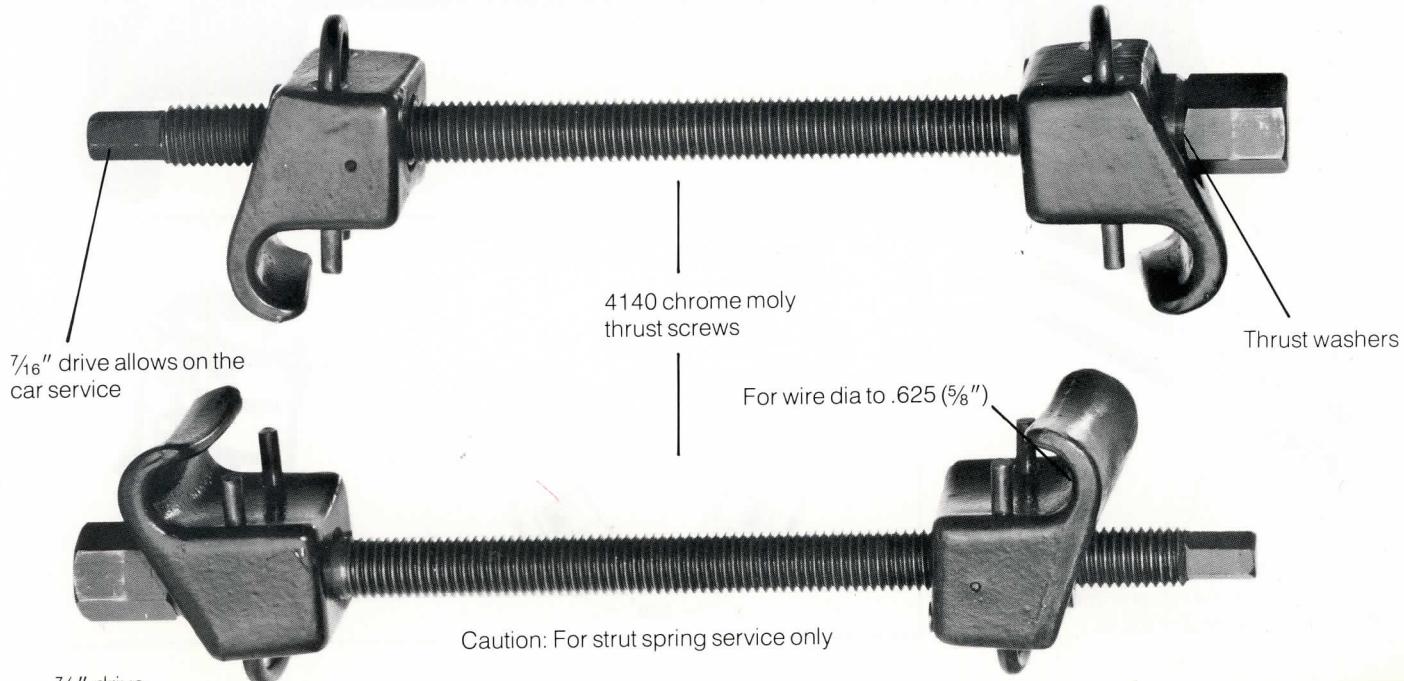
Safety latch retracted



7 1/2° hook angle



Safety latch engaged

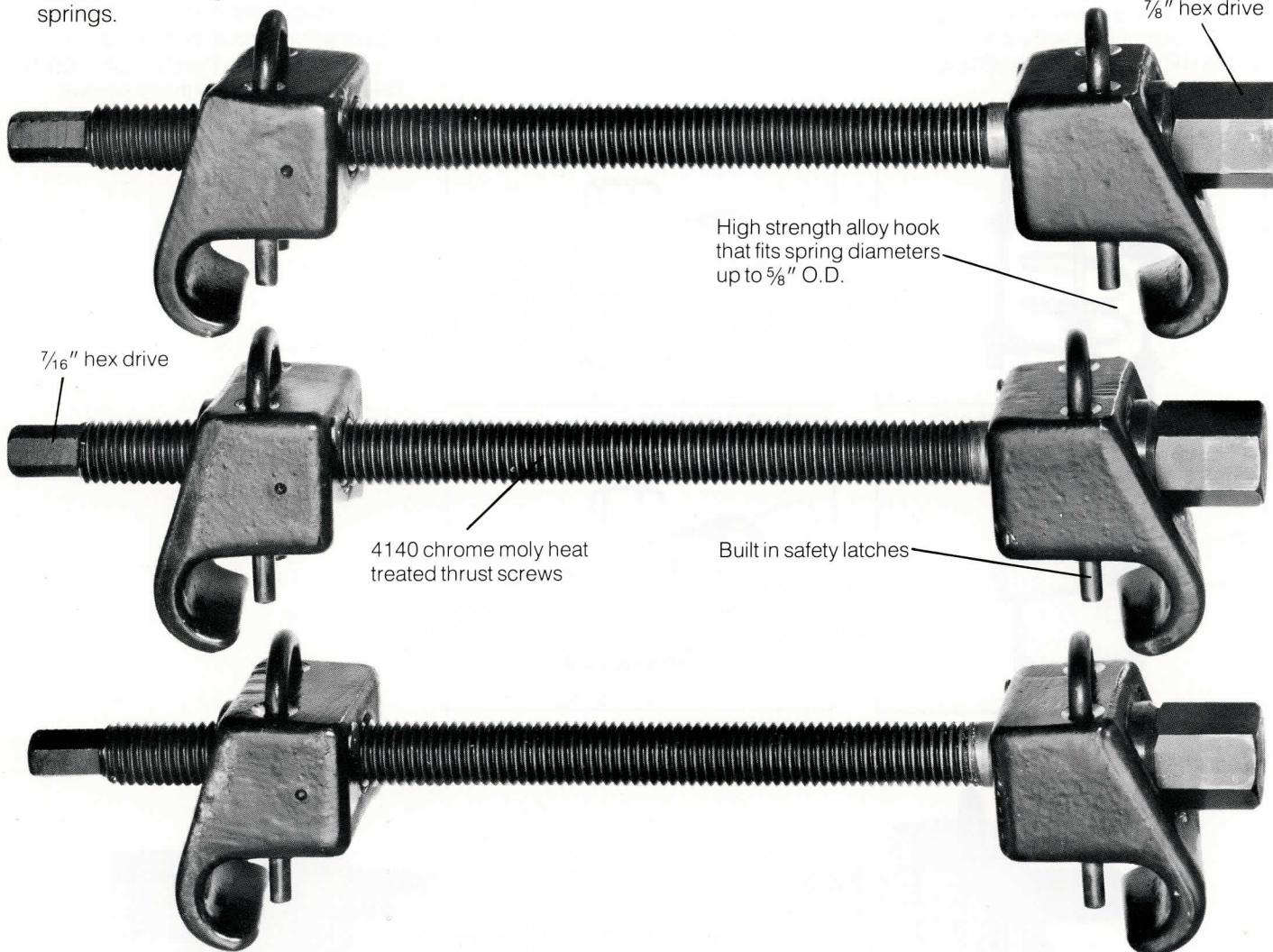


GP 1009-S3 Zip Pirates™

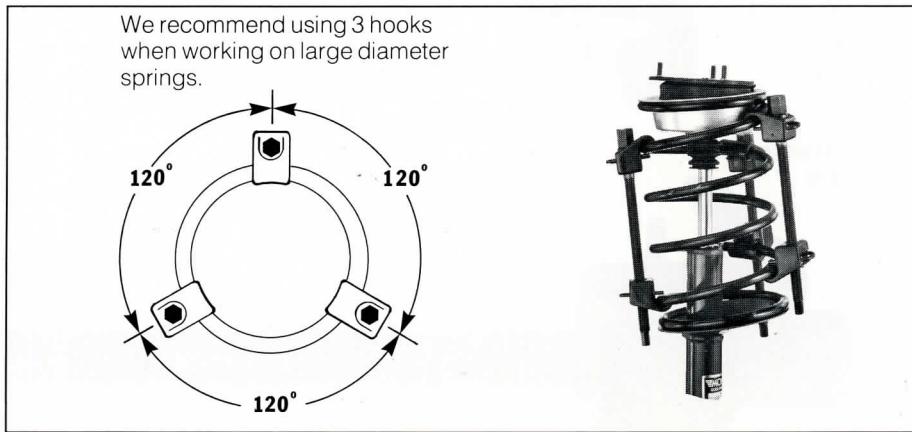
MacPherson Strut Spring Hook Compressor

The GP 1009-S3 Spring Compressor has been designed for working on the very large diameter springs, such as GM X and A cars, Chrysler K and E cars and other large diameter strut springs.

These compressors are very inexpensive and extremely high quality. They fit 100% of all vehicles equipped with MacPherson strut suspension.

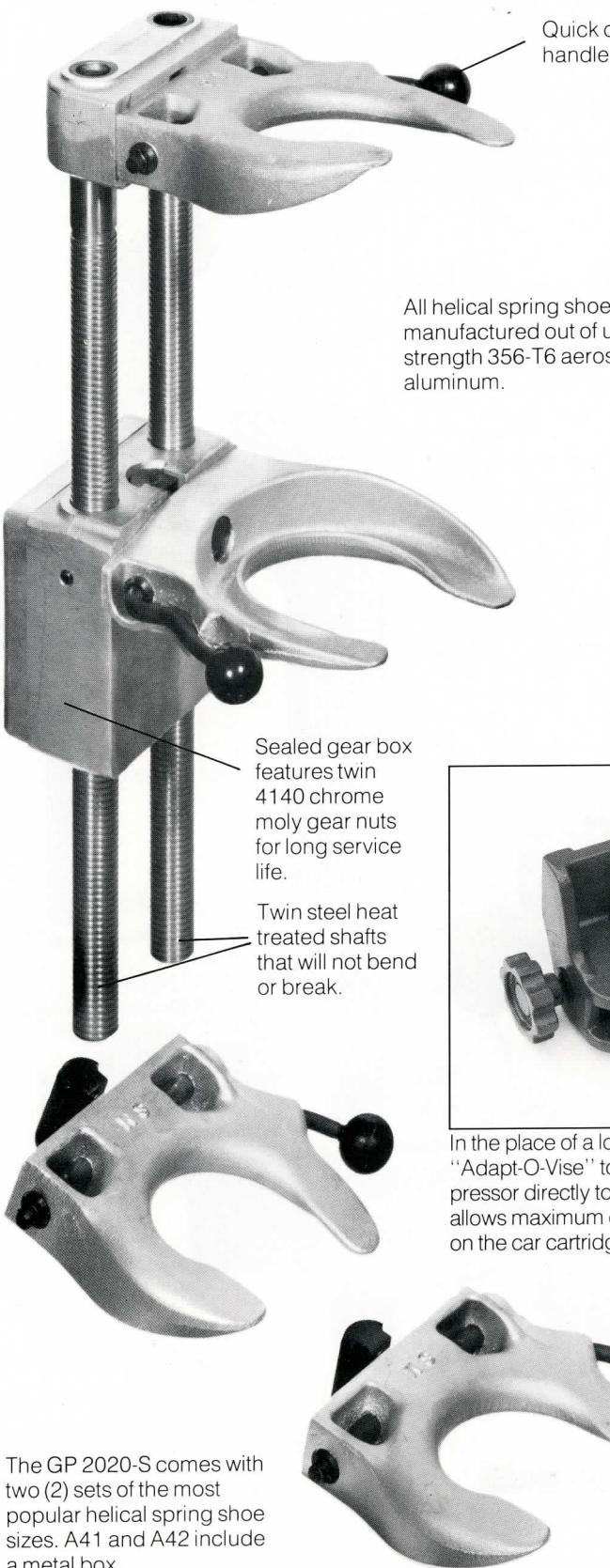


Optional extra long thrust screws manufactured of 4140 chrome moly steel, Part #GP1009-B.



GP 2020 Power Pirate™

MacPherson Strut Spring Compressor



The GP 2020-S comes with two (2) sets of the most popular helical spring shoe sizes. A41 and A42 include a metal box.

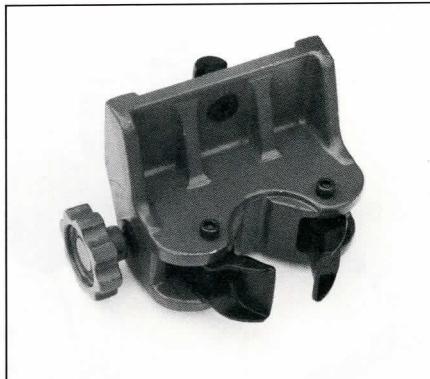
Quick changeover autolock handle

All helical spring shoes are manufactured out of ultra high strength 356-T6 aerospace quality aluminum.

The new GP 2020 "Power Pirate" has been designed as a midrange priced Strut Spring Compressor. Allows on the car or off the car strut spring service work and features the patented helical spring shoe design. Made of Almag 35 with 4140 heat treated drive gears.

Features:

- New twin screw design for double the strength and compression power.
- Uses the same helical spring shoes as the GP 1010 "Air Pirate"
- Impact Wrench Driven
- Triple Gear Assembly
- Ultra High Strength Aluminum
- Lightweight
- Minimal under the fender clearance
- Low maintenance requirements
- 11 inches of Stroke
- Services Struts & Spring Changeovers.
- Longest Stroke on the market



In the place of a lower shoe use an A66 "Adapt-O-Vise" to clamp the spring compressor directly to the strut assembly. This allows maximum convenience when doing on the car cartridge replacement.



The GP 2020 "Power Pirate" offers on the car or off the car impact wrench operation.

GP 2030-S Spring Pirate™

MacPherson Strut Spring Compressor

This new ultra convenient strut service tool can do what no other tool on the market can. The unique low profile hook design allows 100% cartridge replacement directly on the vehicle.

Approved by Ford Motor Co. for servicing Tempo, Topaz, Escort, and Lynx strut springs. Designed to compress Ford springs prior to removing strut from vehicle to avoid damaging CV joint.

Approved by Chrysler Corp. for servicing their struts. Provides a convenient method of servicing K-Car memory steer problems directly on the vehicle.

Unique rotational vernier cam design allows adjustment for spring diameter and angle.

Features:

- Balance Load Hooks
- Impact Wrench Driven
- Has Its Own Vice
- On The Car Service
- Off The Car Service In The Convenient B2 Bench Mount
- Vernier Dial Adjust
- Services 0° Spring Platforms
- Services 2° Lower Spring Platforms
- Services 4° Offset Lower Spring Platforms
- Ultra High Strength Thrust Screws
- Protective Hook Boots To Avoid Damaging Epoxy Coated Springs
- Heat Treated Thrust Screws

This precision service tool will pay for itself in 5 jobs.

The lock pin that secures the spring compressor to the bench is chained so that it cannot be lost

Optional long thrust screws for spring service work on the bench

Quick change clamp handle

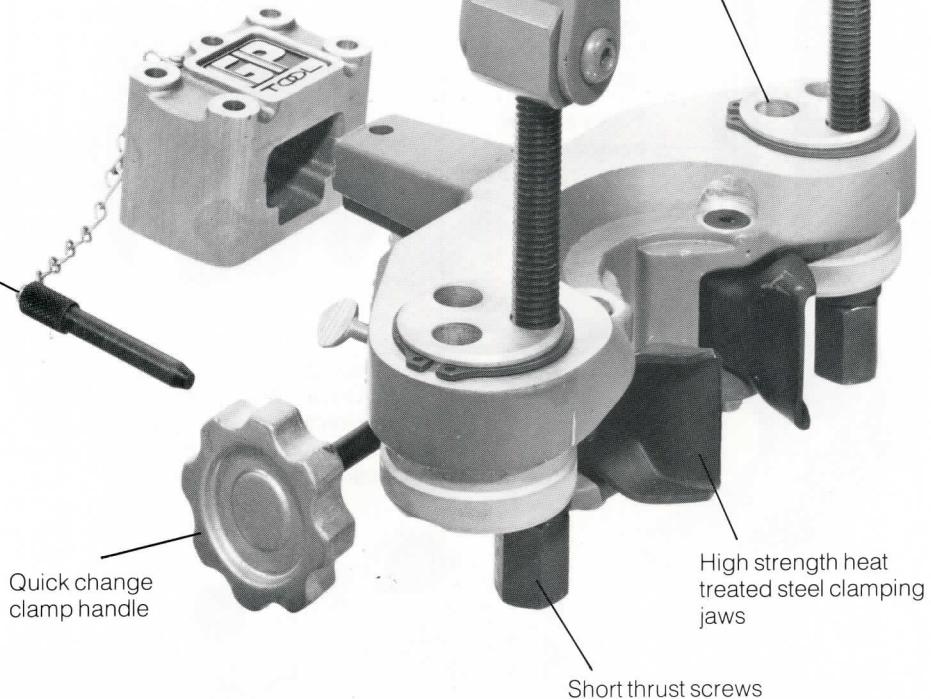
High strength heat treated steel clamping jaws

Short thrust screws

Replaceable plastic boot cover

High strength chrome steel hook construction

Vernier dial cam



GP 2030 Spring Pirate™

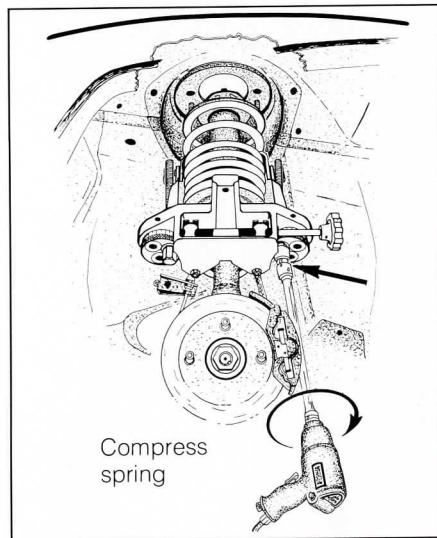
Operation



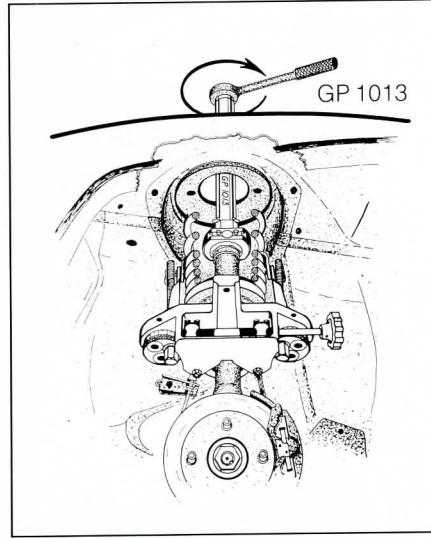
The GP 2030 "Spring Pirate" is supplied with a complete set of pictorial instructions that take you through step by step procedures. Very clear to understand making even the most

inexperienced strut service mechanic an expert. Below are just a few of the step by step procedures when learning to understand the versatility of this new product.

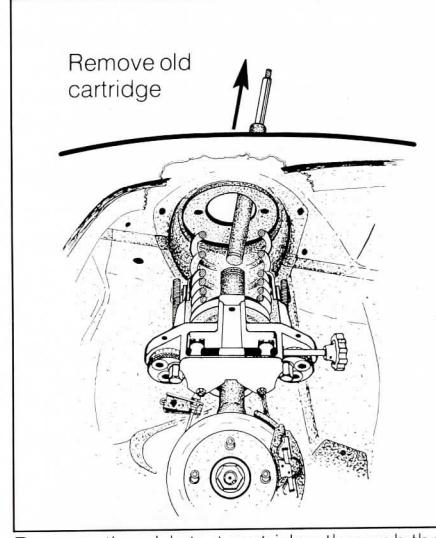
On The Car Strut Rebuilding—"Fast"



After attaching the "Spring Pirate" to the strut, compress the spring and remove the piston rod nut.

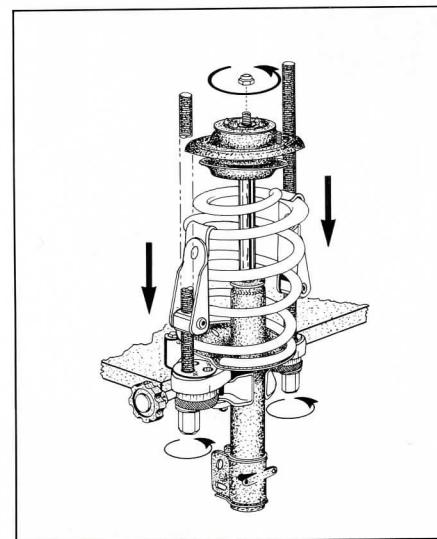


Using the new GP 1013 spanner, remove the body nut directly on the car to save time.

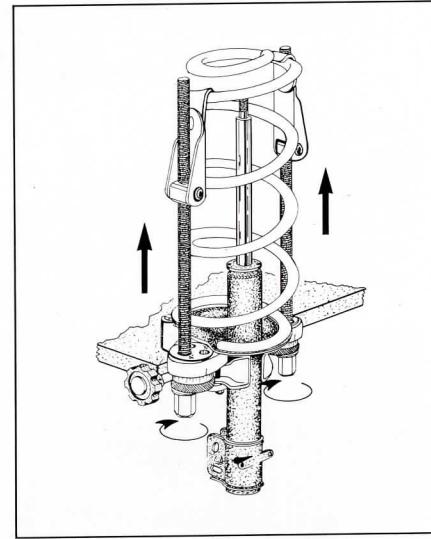


Remove the old strut cartridge through the hole at the top of the fender panel and replace with new.

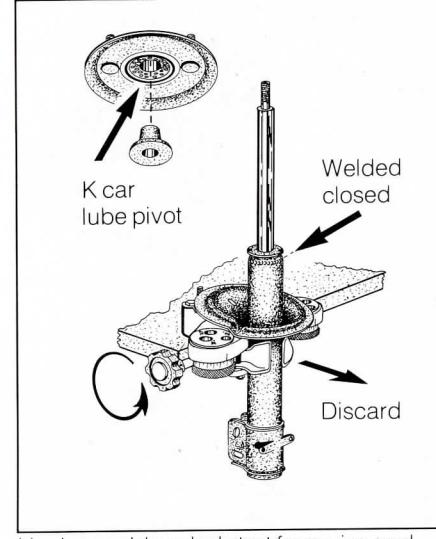
Off The Car Sealed Strut Spring Replacement



With the GP 2030 secured to the bench-mount, install long bolts, and compress the spring.



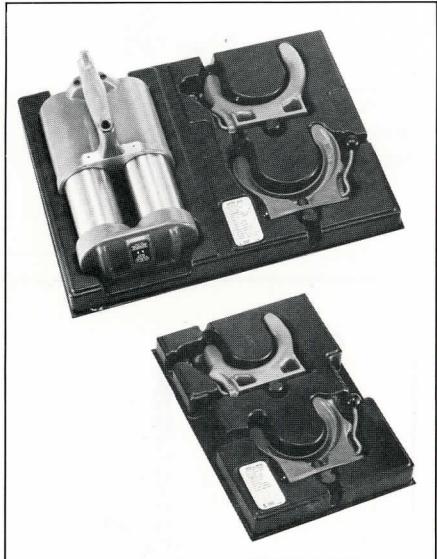
After removing the piston rod nut, completely relax the spring tension and remove hooks.



Unclamp old sealed strut from vise and discard. Always lubricate the top bearing plate prior to reinstallation.

This lightweight (18 lbs.) portable tool can be used on or off the car and is the fastest known method for replacing MacPherson strut shocks. GP Tools offers the ultimate in speed and safety. Bust the "flat rate" with 1-second spring compression time!

The GP 1010 power unit is available with 2 different sized sets of helical spring shoes each equipped with an autolock mechanism. The autolock mechanism secures the shoe to the power unit and allows for rapid shoe exchange. The shoe sets fit a wide range of MacPherson strut springs both domestic and import. The patented helical spring shoe encapsulates 220° of the spring coil. Safe-Fast-Easy



GP 1010-S (2 shoe sets).



Off the car.



Warranty

Guaranteed under the standard GP Tool Warranty policies. One year guarantee against defective workmanship and material.



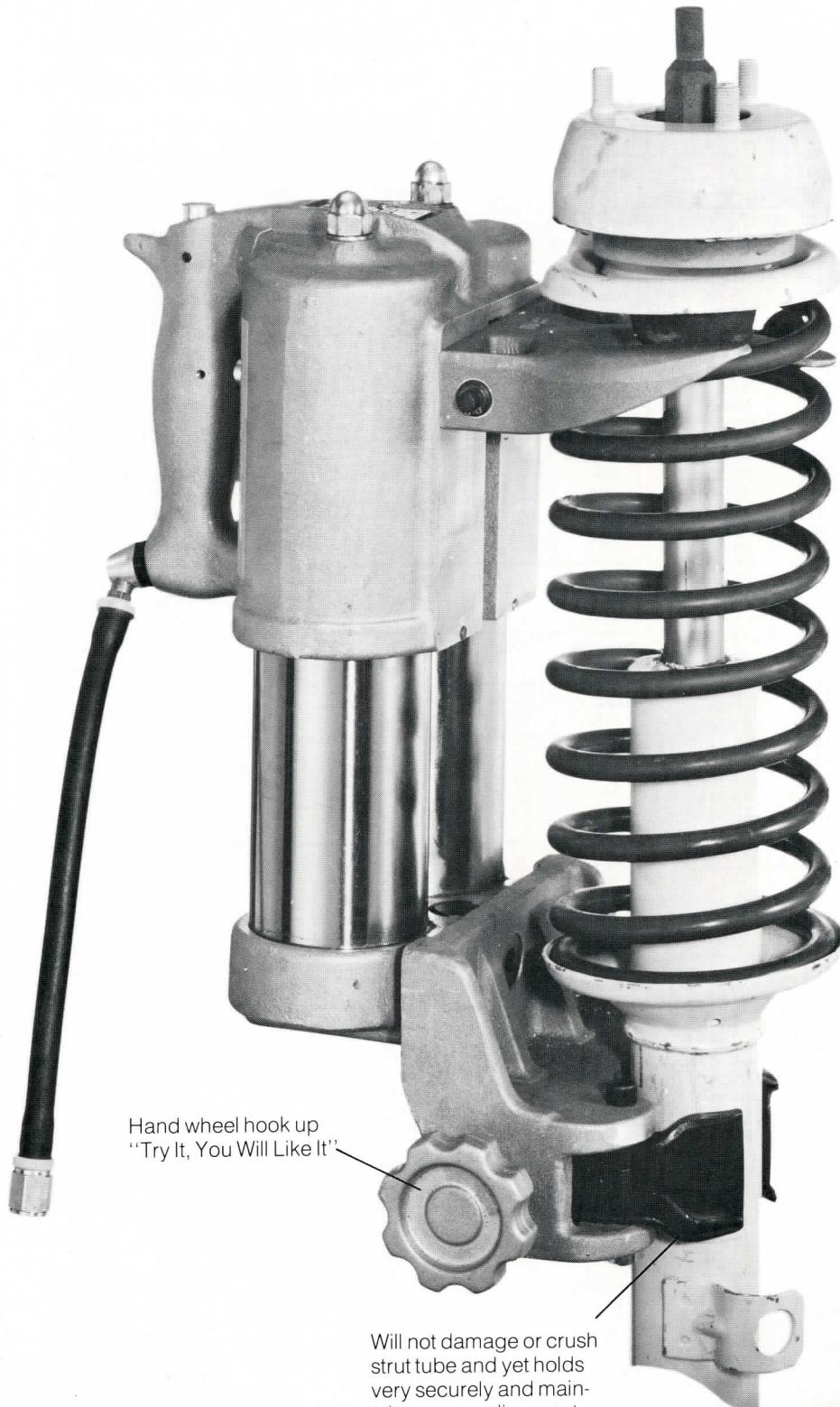
On the car imports w/rebuildable struts.



Will not damage epoxy coated springs.

GP 1010-A66 Adapt-O-Vise™

Used With The
GP 1010 or GP 2020

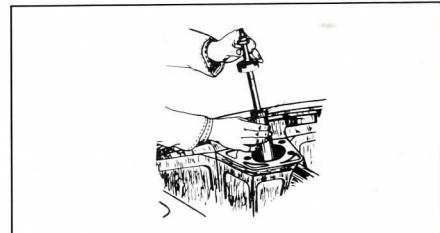
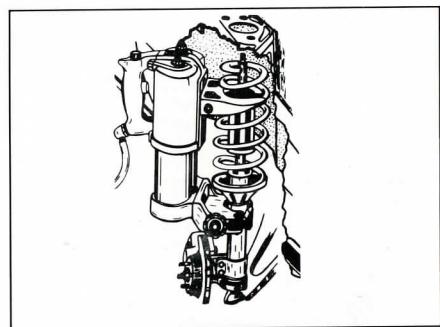


Will not damage or crush
strut tube and yet holds
very securely and main-
tains proper alignment.

The "Adapt-O-Vise" is designed to clamp the GP 1010 "Air Pirate" or GP 2020 "Power Pirate" directly to the strut on the car. Gives the mechanic both hands free to work on the strut while the spring is compressed. Most commonly used when there is not enough room under the fender panel to tilt the strut out from under the fender panel.

Features:

- Convenient T-nut hook up. Light-weight ultra high strength 356-T6 aluminum
- Hand wheel for rapid hook up. Fits either the top of the tool or the bottom of the tool.



When using the "Adapt-O-Vise", service the strut down through the hole in the top of the fender panel. To remove the body nut, we suggest using the GP 1013 "Pro Spanner Pirate".



Manufacturer	Shoe Set Required		Torque Spec.	
	Front Suspension	Rear Suspension	Ft/Lb Body Nut	Ft/Lb Piston Rod
Audi				
Fox	A42	A53	108	43
100LS	A50&A54	N/A	108	43
4000	A42	A41	109	36
5000 (1978-79)	A50	N/A	130	43
5000 (1980)	A55	N/A	130	43
BMW				
3L	A50	N/A	87-100	57-62
316	A50	N/A	87-101	57-62
320i	A50	A53	87-101	57-62
528	A50	N/A	87-100	52-58
530i	A50	A53	87-101	57-62
1600-2002	A50	N/A	87-101	57-62
2500-2800	A50	N/A	87-101	57-62
Bavaria 2800-				
CS3.0S	A50	N/A	87-101	57-62
Series 3 models	A41	A53	87-101	52-58
Chrysler				
0-24*	A55***	A55	N/A	55-60
Arrow	A42	N/A	30-35	30-35
Champ	A50	N/A	30-35	30-35
Colt	A42	N/A	36	29-36
Cricket	A42	N/A	36	29-36
Horizon	A55***	A42	N/A	55-60
K-Cars*	A55***	N/A	N/A	55-60
Omni	A55***	A53	N/A	55-60
Datsun				
200SX	A50	N/A	58-80	43-54
210	A41	N/A	45	46-53
240Z-260Z-280Z	A41	A41	45	55-70
280ZX	A50	N/A	45	55-70
310	A41	N/A	45	46-53
510 (thru 1979)	A42	N/A	45	43-54
510	A41	N/A	45	43-54
610	A42	N/A	45	43-54
710	A42	N/A	45	43-54
810	A42	N/A	50-80	43-54
B-210 (thru 1979)	A41	N/A	45	46-53
F-10-1200 (thru 1979)	A41	N/A	58-80	45
Fiat				
124	A41	N/A	40-45	40-45
128	A41	N/A	40-45	72
131S	A41	N/A	40-45	40-45
Brava	A41	N/A	40-45	40-45
Strada	A42	N/A	40-45	40-45
X 1/9	A42	A42	40-45	40-45
Ford Motor Company				
Capri	A42	N/A	72-87	28-32
Cortina	A42	N/A	N/A	48-70
Escort	A41	A41	N/A	60-70
Erika (1980)	A41	A41	N/A	48-70
EXP	A41	A41	N/A	40-70
Fiesta	A41	A41	N/A	48-70
Lincoln*	A55***	N/A	N/A	48-70
Lincoln Town Car*	A55***	N/A	N/A	60-70
Lynx	A41	A41	N/A	60-70
General Motors				
A-Body top coil (all)*	A55***	N/A	N/A	68
A-Body bottom coil (all)	A50***	N/A	N/A	
J-Body (all)**	A50***	N/A	140-170	68
X-Body top coil (all)*	A55***	N/A	N/A	68
X-Body bottom coil (all)	A50***	N/A	N/A	
Honda				
Accord	A42	A41	N/A	34-43
Civic	A53	N/A	40-51	33-36
Civic 1500	A42	A42	40-51	33-36
CVCC	A53	N/A	40-51	33-36
Prelude	A42	A42	N/A	36-43

Manufacturer	Shoe Set Required		Torque Spec.	
	Front Suspension	Rear Suspension	Ft/Lb Body Nut	Ft/Lb Piston Rod
Lancia				
Beta	A50	A50	94	30-45
Scorpio	A41	A41	94	30-45
Mazda				
626	A42	A41	35-45	25-35
GLC (Thru 1980)	A41	N/A	35-45	47-49
GLC (1981 On)	A42	A41	35-45	47-49
RX-2 (1971-1973)	A41	N/A	35-45	25-35
RX-3	A42	N/A	35-45	47-49
RX-4	A42	N/A	35-45	25-35
RX-7 top coil	A42	N/A	35-46	25-35
RX-7 bottom coil	A41	N/A	35-46	
Opel				
Commodore	A50	N/A	70-75	33
Monza	A50	N/A	70-75	33
Rekord	A50	N/A	70-75	33
Senator	A50	N/A	70-75	33
Peugeot				
204	A42	N/A	70-78	33
304	A42	N/A	70-78	33
504	A50	N/A	70-78	45
505	A50	N/A	70-78	45
604	A50	N/A	70-78	33
Porsche				
924	A41	N/A	N/A	56-58
928	A42	N/A	N/A	56-58
Renault				
18i	A55	N/A	N/A	44
Saab				
900	A50	N/A	N/A	N/A
Subaru				
Brat	A42	N/A	72-87	43-54
DL	A41	N/A	72-87	45-54
GL	A42	N/A	72-87	43-54
GLF	A42	N/A	72-87	43-54
Toyota				
Camry	A50	N/A	66-97	29-34
Celica	A50	N/A	75-100	35-45
Celica Supra	A50	N/A	75-100	35-45
Corolla 1200-1900	A42	A42	66-97	29-39
Corolla	A42	A42	66-97	35-45
Corona	A42	N/A	75-100	35-45
Cressida	A50	N/A	75-100	35-45
SR-5	A42	N/A	66-97	29-34
Starlet	A42	N/A	66-97	29-39
Tercel	A42	A42	66-97	66-97
Triumph				
TR-7	A42	N/A	59	59
TR-8	A50	N/A	74	74
Volkswagen				
411-412	A42	N/A	80-100	43-61
Dasher	A42	A53	108	90-100
Derby	A42	N/A	80-100	80-100
Golf	A42	N/A	80-100	58
Jetta	A42	A53	80-108	80-108
Passet	A42	N/A	108	58
Polo	A42	N/A	80-100	80-100
Rabbit	A42	A53	80-100	25-35
Scirocco	A42	A53	108	25-35
Super Beetle	A41	N/A	80-100	43-61
Quantum	A42	A41	108	58
Volvo				
242	A50	N/A	72-77	36-50
244	A50	N/A	72-77	36-50
245	A50	N/A	72-77	36-50
343	A50	N/A	72-77	36-50
DL	A55	N/A	72-77	36-50

* Requires 165 psi

** Requires 150 psi

*** 4 Coil Minimum

GP 1010

GP 2020

MacPherson Strut Spring Shoe/Accessories



Shoe Adaptor—A54 (Audi 100LS adaptor)

Drop into lower extra large shoe. The adaptor fits underneath the lower spring platform. After compression, the spring and lower platform can be removed from the strut assembly.

Note: The outside diameter is for Audi and the inside cone is universal to fit some of the tougher struts such as BMW and Peugeot.

Jumbo Shoe—A55 (VE-309 Epoxy Coated)

Top application, front end:

- GM A Cars
 - Firena
 - Cutlass
 - Ciera
- GM X Cars
 - Citation
 - Skylark-Phoenix
 - Omega

Bottom application, front end:

- Chrysler K Cars
 - Omni/Horizon
 - Audi 5000 (1980)
 - Renault 18i
 - Dodge 024
 - Volvo DL (150-160 P.S.I.)
- GM A Cars
 - Firena
 - Cutlass
 - Ciera
- Chrysler K Cars
 - Omni/Horizon



A55

Ex. Large Shoe—A50 (VE-309 Epoxy Coated)

Top application, front end:

- GM J Cars
- BMW 320 I-530 I-316 -2500-2800-3L
- Bavaria 2800-CS 3-OS-528
- Lancia Beta
- Peugeot 504
- Toyota Celica
- Toyota, Supra -Camry, Cressida, -Corolla 4-WD
- Volvo 100LS w/adaptor GP 1010 -54 and 150 PSI

Bottom application, front end:

- Audi 5000 1978-1979
- Datsun 280ZX-200SX
- Opel Rekord-Monza -Commodore-Senator
- Plymouth Champ
- Peugeot 505
- Saab 900
- Triumph TR-8
- GM A Cars
 - Monza
- BMW 320 I-530 I-316 -2500-2800-3L
- Bavaria 2800-CS
- Lancia Beta
- Peugeot 504
- Toyota Celica



A50

Large Shoe—A42

Top application, front end:

- Audi Fox
- Capri
- Cortina
- Datsun 240Z-260Z-280Z-510-610-710 1979, 810
- Dodge Colt
- Honda Accord-Prelude -Civic 1500
- Mazda RX/4-RX/7 -81 GLC-626
- Peugeot 204-304
- Plymouth Arrow-Cricket
- Toyota Corolla-SR-5 1100-1200-1600-1900

- Toyota-Tercel-Starlet, -Corolla LE, -4WD Tercel
- Triumph TR-7
- VW 411-412 Dasher -Rabbit-Scirocco -Passet-Golf-Polo-Derby
- Fiat Strada X 1/9
- Porsche 928

Bottom application, front end:

- Toyota-Tercel -Camry, Cressida, -Corolla LE, Corolla 5 DR
- Peugeot 204-304
- Plymouth Arrow -Cricket
- Toyota Corolla-SR-5 -1100-1200-1600 -1900
- Toyota-Tercel, Camry, -Cressida, Corolla LE, -Corolla 5 DR
- Triumph TR-7
- VW 411-412 Dasher -Rabbit-Scirocco -Passet-Golf-Polo -Derby
- Dodge Colt
- Honda Accord-Civic -1500-Prelude
- Mazda RX/4-626 -'81 GLC
- Fiat Strada-X 1/9



A42

Small Shoe—A41

Top application, front end:

- BMW 1600-2002
- Datsun B210-F-10 -1200-240Z-260Z -280Z-310-1979, 510
- Fiat 128-131S-X 1/9
- Ford Fiesta-Escort -Ford-Erika 1980
- Ford-Tempo-Topaz
- Lancia Scorpion
- Mazda RX/2 (71-73)
- Porsche 924

- Subaru 1400DL
- VW Super Beetle
- Mazda '80 GLC
- Mercury Lynx
- Datsun 210

Bottom application, front end:

- BMW 1600-2002
- Datsun B210-F-10 -1200-240Z-260Z -280Z-310-1979, 510
- Fiat 128-131S-X 1/9
- Ford Fiesta-Escort -Ford-Erika 1980
- Honda Civic CRX
- Lancia Scorpion
- Mazda RX/2 (71-73)
- Porsche 924
- Subaru 1400DL
- VW Super Beetle
- Mazda '80 GLC
- RX-7
- Mercury Lynx
- Datsun 210



A41

Ex. Small Shoe—A53

Top application, front end:

- Honda Civic-CVCC

The Extra Small Shoe also fits the conventional spring assisted shock absorbers and Race Car Shocks fitted with springs such as: Indy Cars Formula 1-2 Formula A-B-C, (S.C.C.A. Road Racing).



A53

GP 1014 Spanner Pirate™

Adjustable Body Nut Spanner Wrench Designed For Off The Car Service Only

The ultimate design for removing and replacing MacPherson strut cartridge threaded retaining collars. (Strut Body Nuts)

Quality

Manufactured of heat-treated 4140 chrome moly high strength steel to assure years of functional service. Oil Resistant Neoprene Handle.

Features—4 Sided Design

The 4 sided design allows the use of the GP 1014 on various body nut types.

Side 1—Has the 6 point VW hex plus the Toyota 3 pins and Honda 8 point.

Side 2—Has 2 adjustable square pins which can be reversed for various square pin applications.

Side 3—Features three 8 point octagonal shapes to fit all 8-sided body nut applications.

Side 4—Features 2 large square pins and can be reversed for round pin applications.

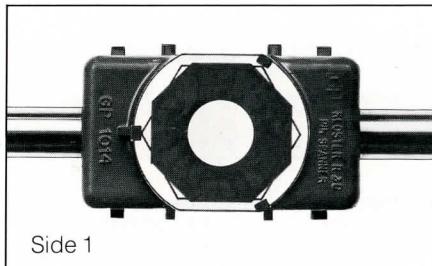
The sliding T-nuts will adjust to a total variety of cap sizes simply by loosening two set screws, positioning the tool over the cap, and locking the T-nuts in the proper position by tightening the slide set screws.

Removable handles which allow either one or two handle operation where "on-the-car" fender clearance is minimal.

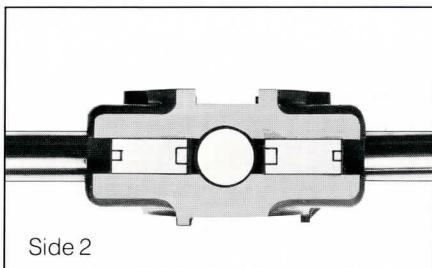
Versatility

The new inexpensive replaceable T-nut slides can be updated as the market changes or when the tool becomes worn.

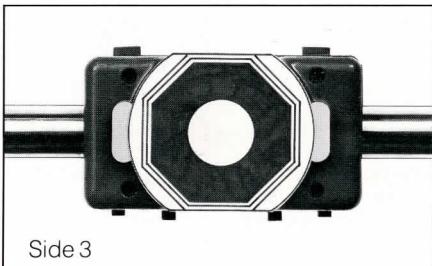
Please refer to the GP Tool yellow price sheet for various T-nut size availability.



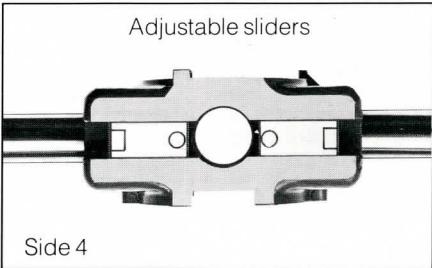
VW hex. Honda octagonal and 3 pin Toyota



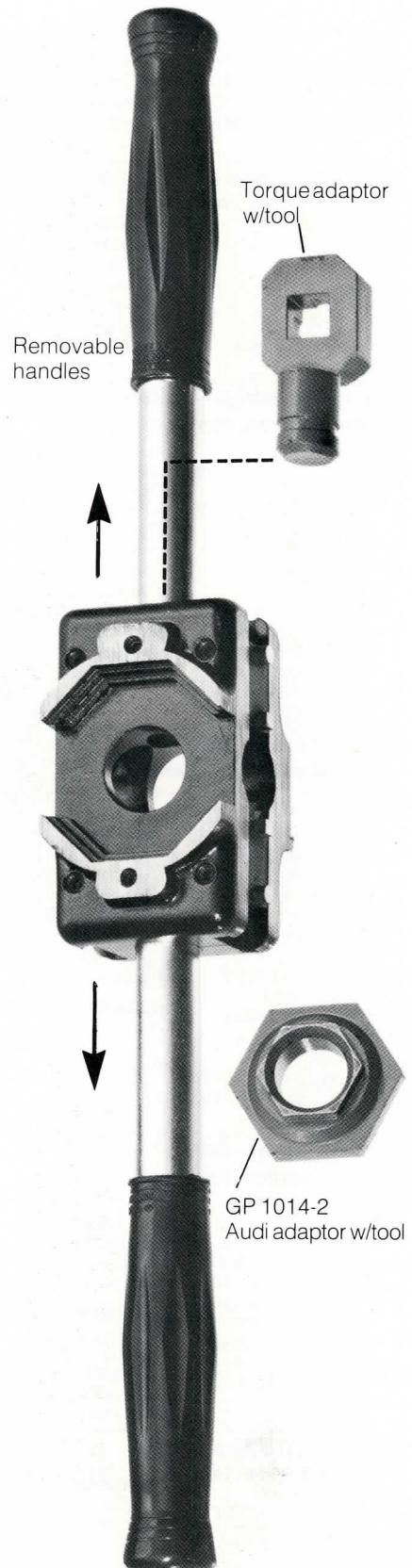
Adjustable square pins



3 octagonal sizes

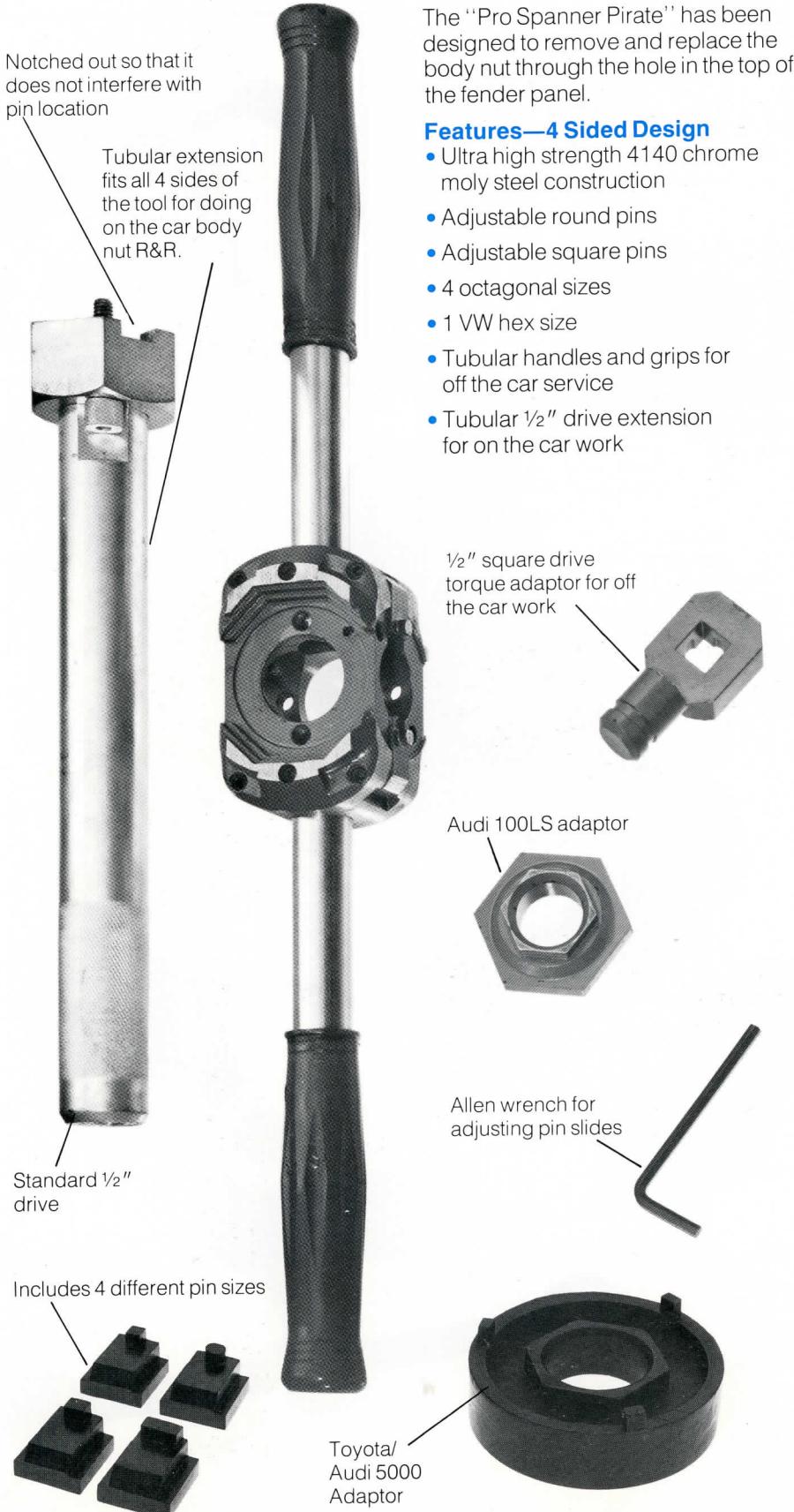


Adjustable round pin slides



GP 1013-PS Pro Spanner Pirate™

Adjustable Body Nut
Spanner Wrench
Designed For On Or Off
The Car Service



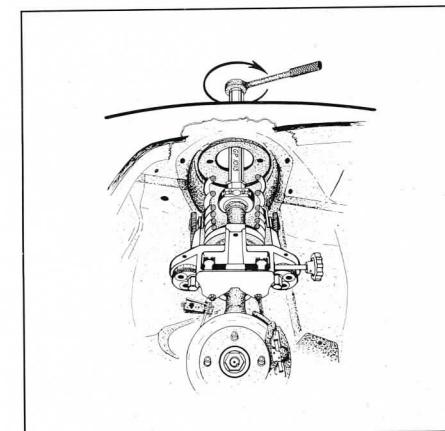
The "Pro Spanner Pirate" has been designed to remove and replace the body nut through the hole in the top of the fender panel.

Features—4 Sided Design

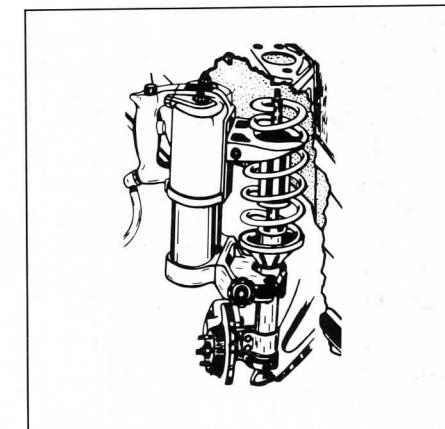
- Ultra high strength 4140 chrome moly steel construction
- Adjustable round pins
- Adjustable square pins
- 4 octagonal sizes
- 1 VW hex size
- Tubular handles and grips for off the car service
- Tubular 1/2" drive extension for on the car work



The 2 handles can be replaced when doing off the car service work.



Using the GP 1013 on the car with the GP 2030 "Spring Pirate".



Use the GP 1013 with the GP 1010 "Air Pirate" or GP 2020 "Power Pirate".

GP 1015 Roto-Pirate™

MacPherson Strut Rack & Pinion Vise

Designed to clamp tubular members 1 1/4 to 2 inch diameters without crushing or damaging the tube. The GP 1015 will securely hold a strut tube from turning when removing even the most stubborn body nuts. The "Roto-Pirate" is equipped with a lock pin which can be removed to allow the strut assembly to be turned upside down when it is necessary to clean out the inside of the tube. The "Roto-Pirate" can be locked in any one of four positions (0°, 90°, 180°, and 270°), which offers maximum convenience for working on not only struts but also rack and pinion steering assemblies.

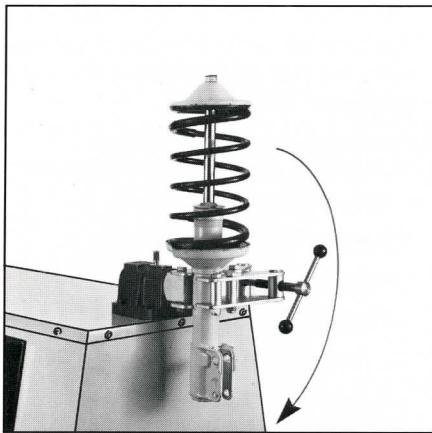
Quality

Built with the finest materials, such as 356-T6 aluminum casting, heat treated hardened steel jaws, steel shafting and lock pin, and heat treated chrome moly steel thrust screw to assure many years of satisfactory service.

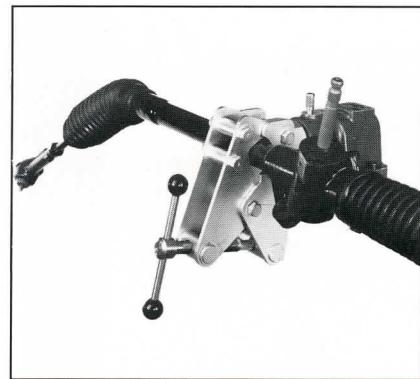
Features:

Convenient one-handed swivel screw snap action for rapid R&R of struts, rack and pinion assemblies, or CV joint drive shafts.

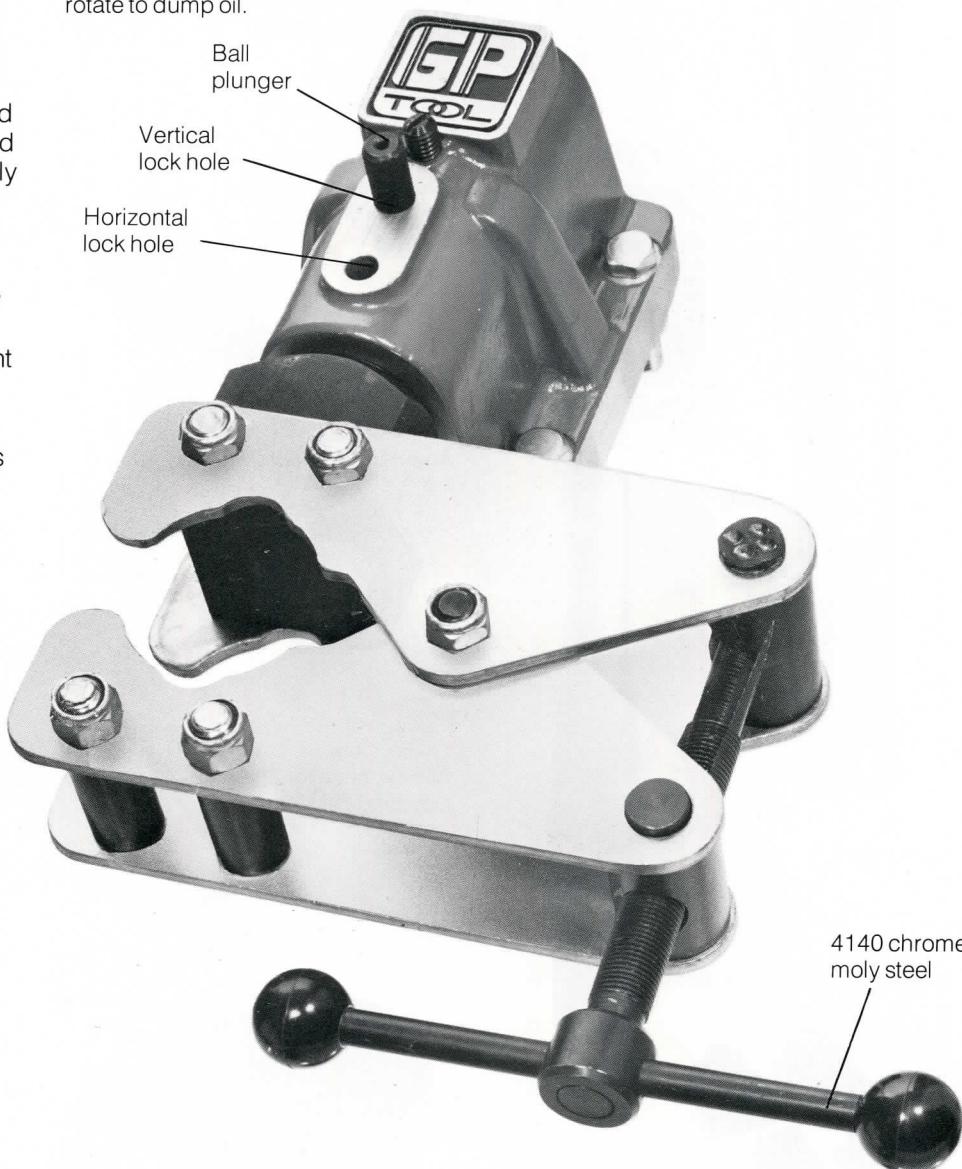
- 360° rotation
- Heat treated chrome moly steel jaws
- 8 point radial tube contact
- One handed snap action for speed
- 250 ft. lbs. rotational holding power
- Heavy duty thrust screws
- Fits all struts



After removing spring and cartridge, rotate to dump oil.



Assembly suitable for holding power rack and pinion.



GP 1016 Bench-Pirate™

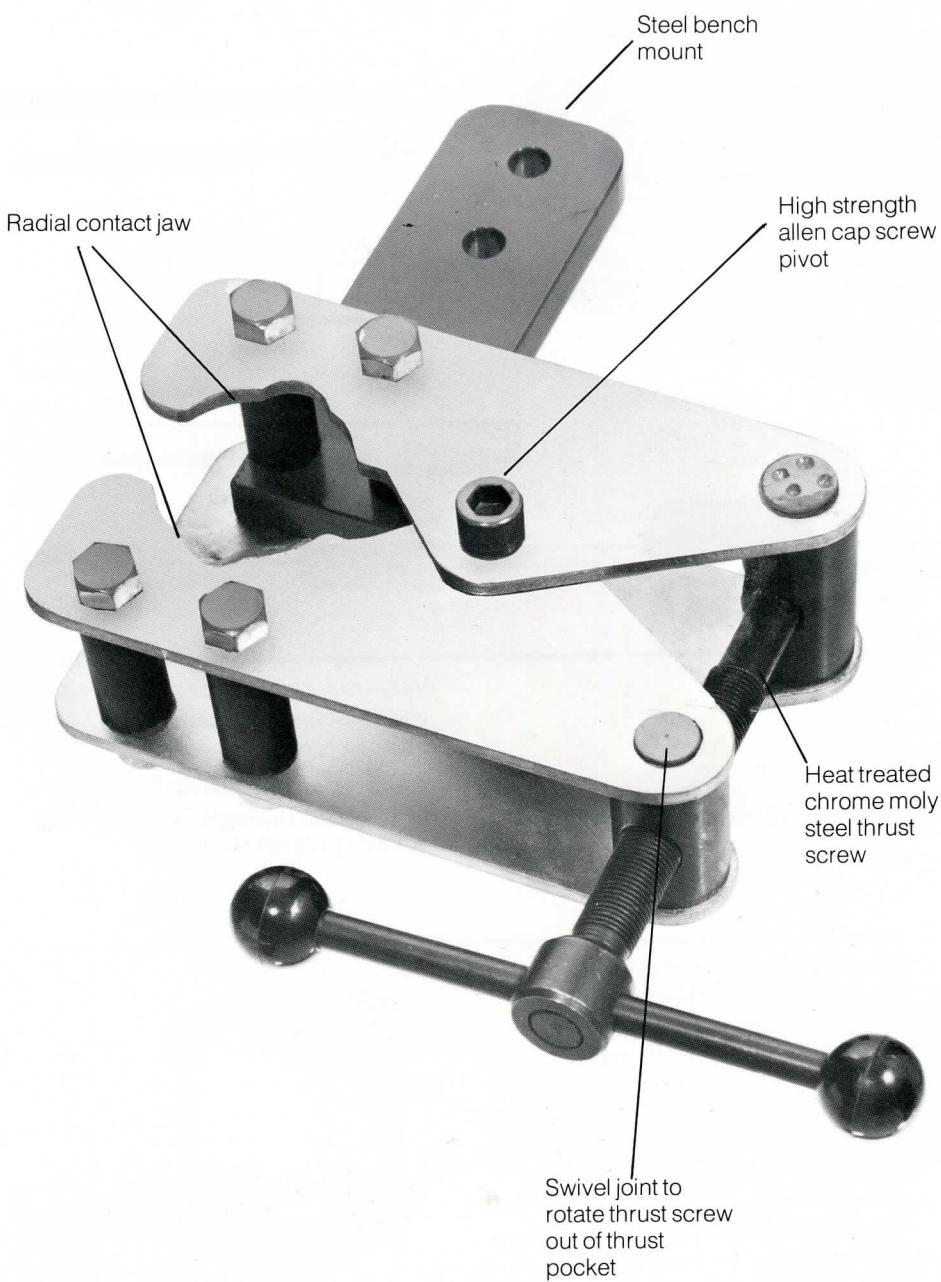
Economy Strut Vise



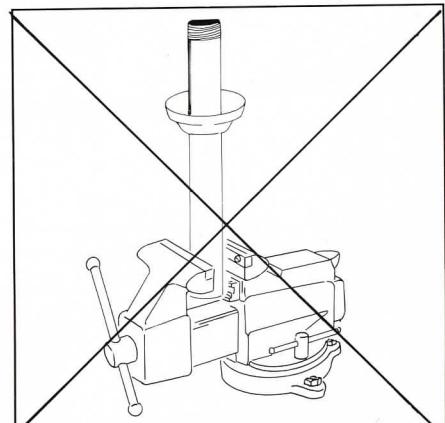
This new "Economy Strut Vise" is similar to the "Roto-Pirate" except it will not rotate. When servicing struts, the body nuts are often rusted or glued on. The GP 1016 Economy Strut Vise will hold the strut securely even during the most stubborn body nut removal.

Features:

- Heat treated chrome moly steel jaws
- 8 point radial tube contact
- One handed snap action for speed
- 250 ft. lbs. rotational holding power
- Heavy duty thrust screws
- Fits all struts



Bolt down to bench and makes an excellent work station.



When removing very stubborn body nuts, the strut tubes are often damaged by not having the proper piece of equipment. The cost of one or two damaged strut tubes would have bought the right vise.

GP 2030-PST Pro-Struttool™ Kit

Complete On The Car Off The Car Service Kit

This new "Pro-Struttool Kit" is the most complete MacPherson Strut package on the market today and allows the service of all struts import and domestic.

Tools in kit are:

Complete oil proof pictorial instruction sheet

Audi 100LS adaptor

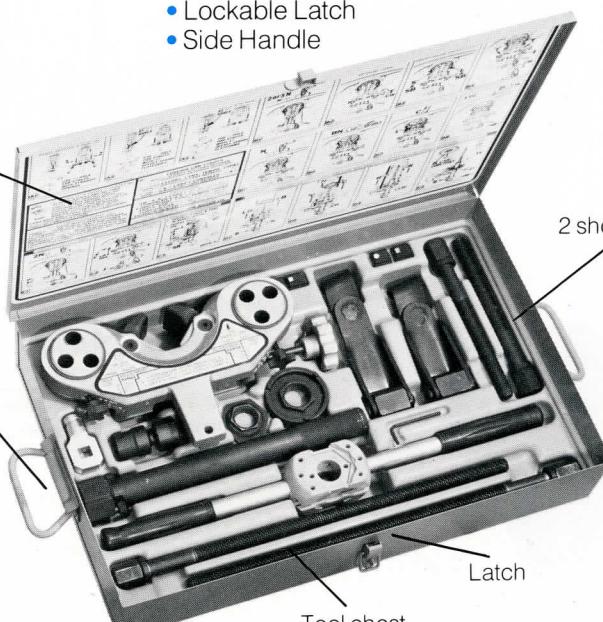
Carrying handles

Tool chest
Latch

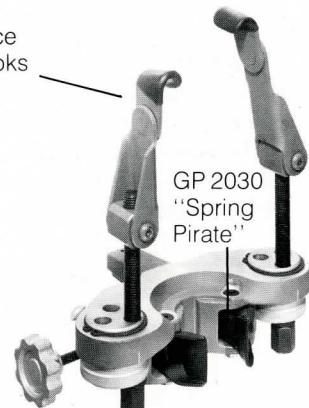
Bench mount with
chained lock pin

Features:

- Heavy Duty Steel Box
- Vacuum Formed Organizer Trays
- Approved by Ford Motor Co.
- Approved by Chrysler Corp.
- Lockable Latch
- Side Handle



2 balance load hooks



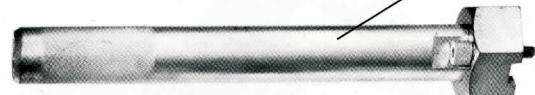
2 short bolts



2 long thrust bolts

Allen key

Tubular extension socket drive



GP 1013 Pro
Spanner
Pirate

GP 1012 Pry Bar

Rubber foot pad for
holding suspension
down with your foot

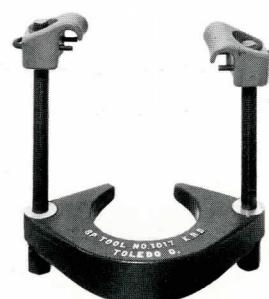


Very useful when doing on the car strut work, such as Datsun 240, 260, and 280Z.

Warning: Do not use on Ford Tempo or Topaz as damage to the constant velocity joint will occur.

GP 1017 Special Renault Tool

When working on R16 and R18 Renault vehicles of European construction, it is necessary to use a special type spring compressor for servicing the strut. The upper spring platform of a Renault Strut is part of the inner fender panel and requires compressing the spring directly on the vehicle. After compressing the spring, the strut shock unit can be unscrewed from the lower control arm and replaced.



GP 1010-B Wall Board Program

Complete MacPherson Strut Equipment Shop



Features complete coverage and approved by Ford & Chrysler

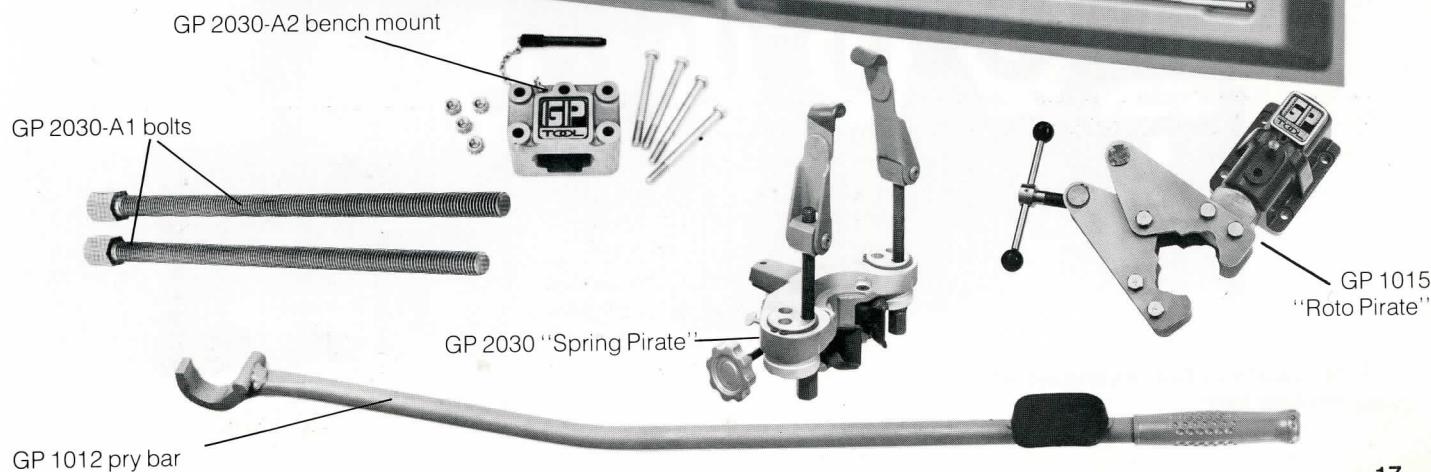
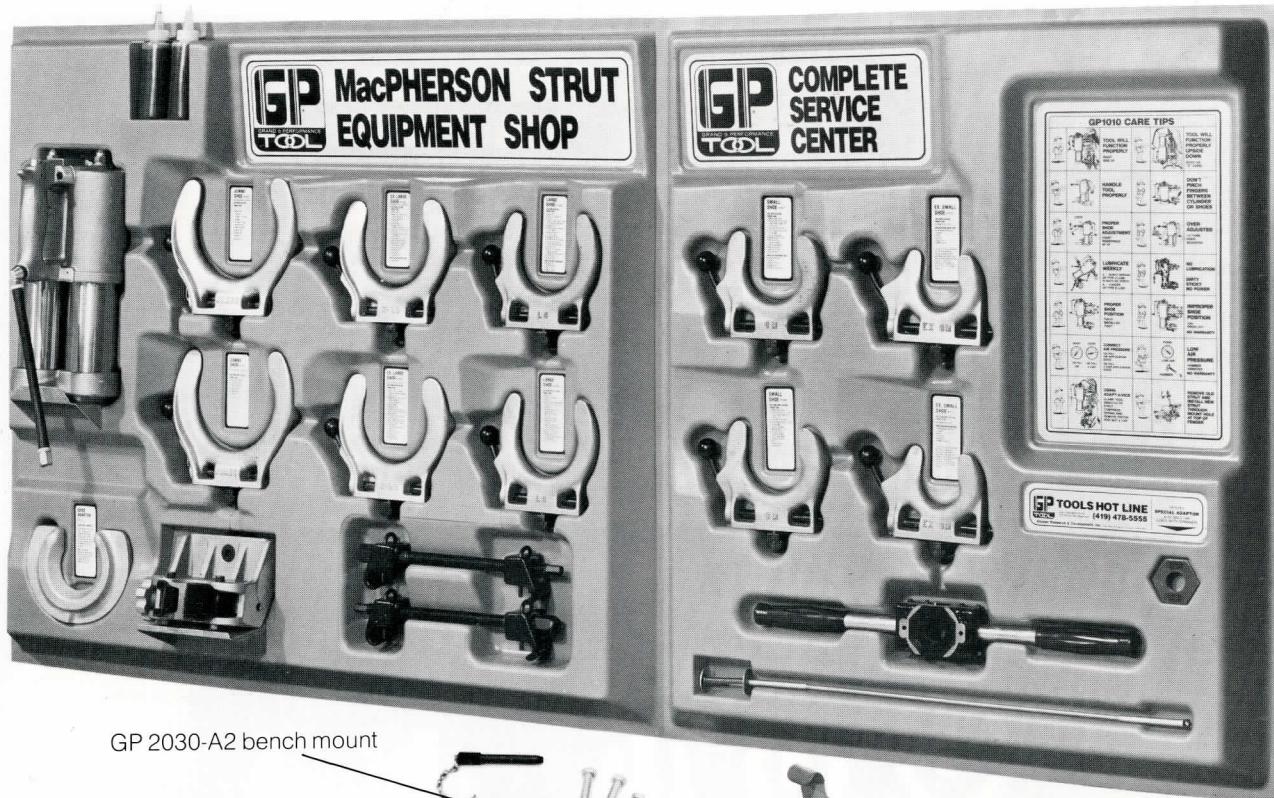
Boards may be purchased separately for the equipment you presently have. The GP 1010-B MacPherson Strut Equipment Shop allows you to safely work on 100% of the total MacPherson strut market place and is guaranteed for one year within the boundaries of our standard GP Tool warranty.

The orange GP Tool organizer boards manufactured from heavy duty A.B.S. plastic. Supplied with suitable moun-

ting hardware to install on either a wood or masonry wall. The GP 1010-B comes complete with all tools and provides convenient storage and organization for the following list of equipment.

- 1-GP 1010 "Air-Pirate" Power Unit
- 1-GP A55 Epoxy Jumbo Shoe Set
- 1-GP A50 Epoxy Extra Large Shoe Set
- 1-GP A53 Ex. Small Shoe Set
- 1-GP A42 Large Shoe Set
- 1-GP A41 Small Shoe Set

- 1-GP A54 Audi 100LS Adaptor
- 1-GP 1012 Pry Bar
- 1-GP 1013 "Pro Spanner Pirate"
- 1-GP 1015 "Roto-Pirate" Strut Vise
- 1-GP 1009-2S Safety Latch "Zip Pirates"
- 2-GP 1010 A/B Special Lube Bottles
- 1-GP 1019 Pick-up Tool
- 1-GP A66 "Adapt-O-Vise"
- 1-GP 2030 "Spring Pirate"
- 2-GP 2030-A1 Bolts
- 1-GP 2030-A2 Bench Mount



GP 1010-C Clock Sign

Sign Clock Supplied
With Numbers And
Letters

**Let Your Customers Know That Your Shop Is Professionally
Equipped To Service Their Struts.**

**You Can Display Your Own P.O.P. (Point Of Purchase)
Message.**

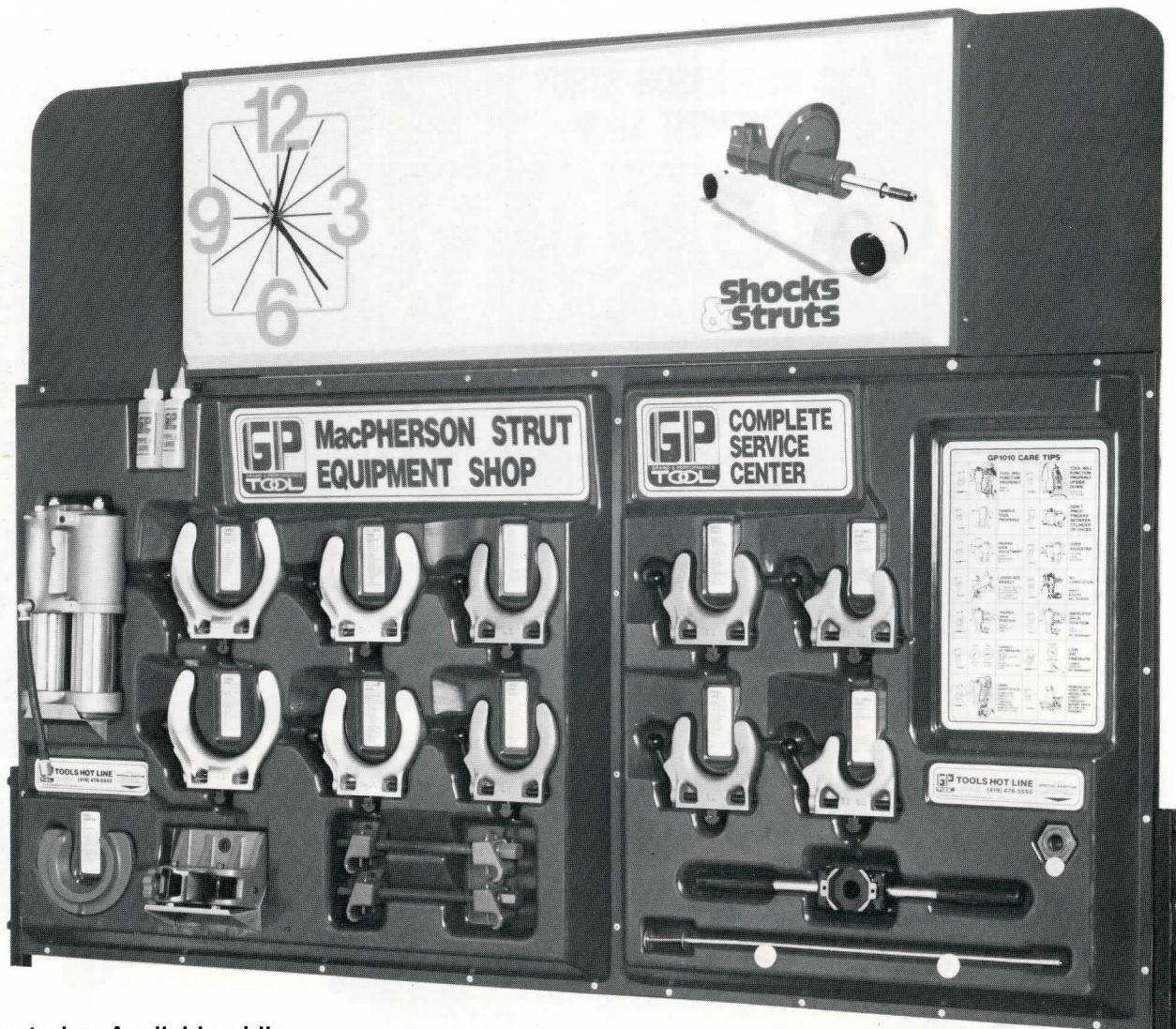
Example

- 1) Strut Special—\$120.00 per pair—installed
- 2) We specialize in MacPherson Strut work

Features

- Is a good night light
- Designed to fit above your GP 1010-B
- Shipped freight prepaid

- A pass through at our cost
- If it only brings in 2 jobs, it's worth the investment
- Don't miss the fantastic profit in strut work



**Order yours today. Available while
quantities last.**

The Only Complete Service Center On The Market Today.

Quality

Heavy duty 14 and 20 gauge construction. Heavy duty 1 1/4" wide drawer slides for smooth operation. The GP 1010 MES MacPherson Strut Equipment Shop is equipped with Locking Casters for holding in place while working with GP 1015 "Roto-Pirate" strut vise.

Features

The roller cabinet is equipped with heavy duty steel drip pan, which can be mounted in three different height

positions. In the rear of the cabinet there is a shelf storage compartment suitable for holding up to 12 rebuilt strut assemblies.

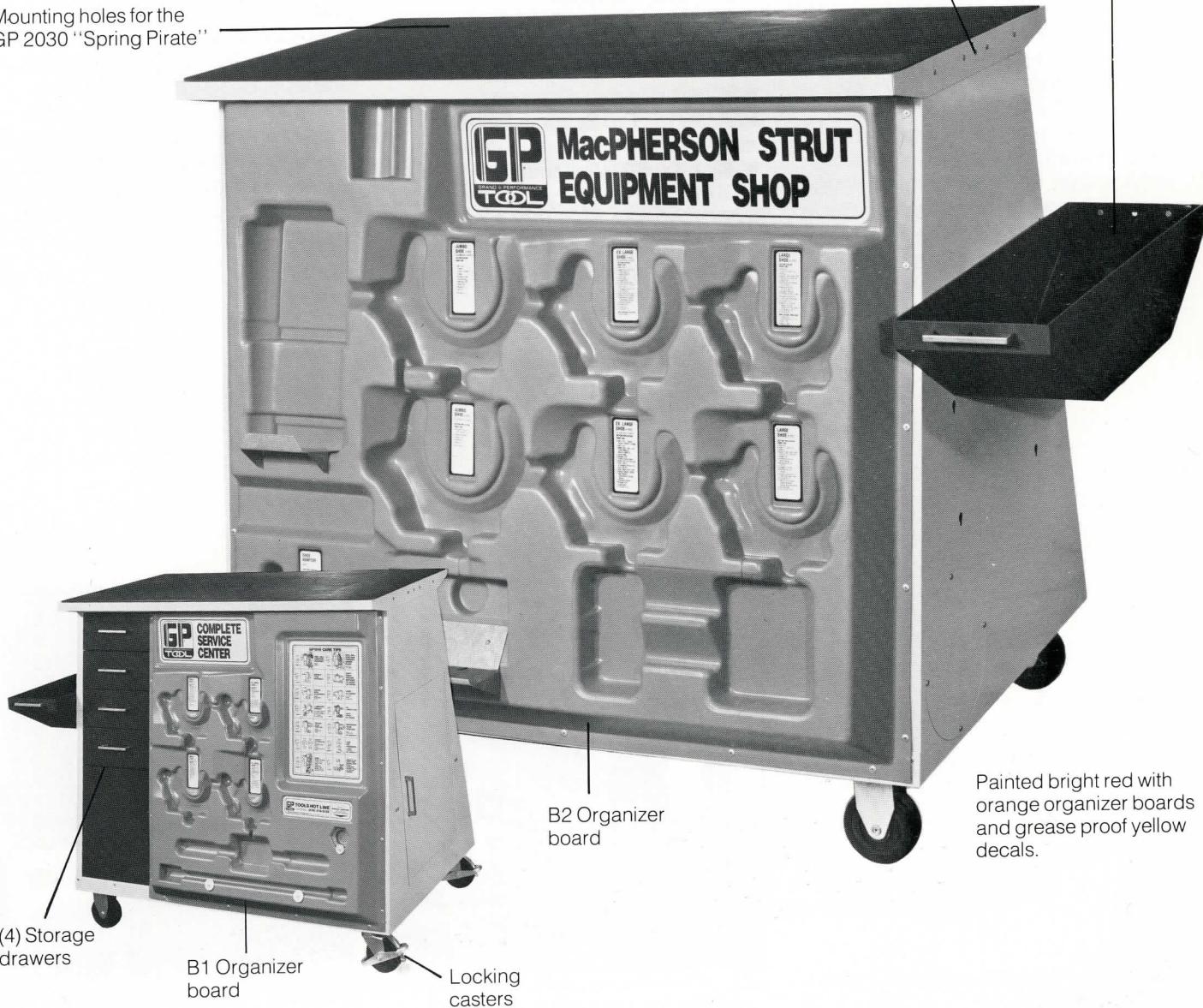
The GP 1010 MES Mobile Equipment Shop is furnished without tools. To completely equip the mobile shop, order the GP 1010B separately.

- Supplied knocked down for easy assembly GP 1010-MES
- Supplied assembled—ready to go to work GP 1010-MES-A

Convenient drip pan with 3 sets of mounting holes to position the drip pan at 3 different levels. When servicing rebuildable struts, the "Roto-Pirate" strut vise allows rapid dumping and cleanout of its tube into the drip pan.

Mounting holes for the GP 1015 "Roto Pirate"

Mounting holes for the
GP 2030 "Spring Pirate"



This new Computerized Strut Shop is the very first in the market place. Designed and developed by Kenneth Kloster to fit the rapidly changing needs of the automotive industry.

Today, we are seeing a multitude of automotive design changes being produced in Detroit and throughout the world, similar to the changes we have seen with disc brakes and alternators. The new design innovations are coming at us so rapidly that it is very difficult for the professional mechanic to stay abreast of proper service needs and techniques in all these new areas.

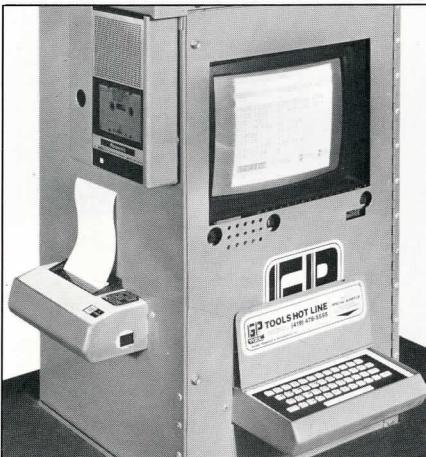
In reality, in order to keep up, a mechanic would have to attend a Ford Service School, a Chrysler Service School, and a GM Service School every year, not even taking into consideration the import built models (impossible). GP Tools brings the training school and technical information to your fingertips, right in your own shop or Automotive Service Center.

Features:

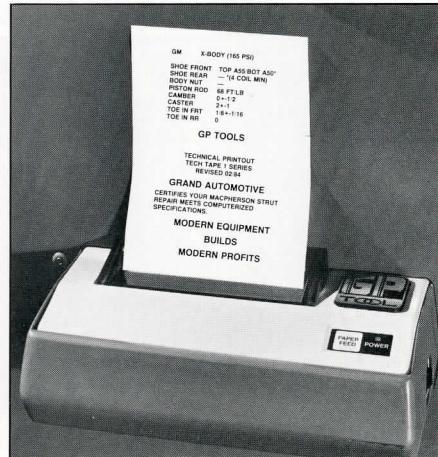
- 20K Ram color computer with "Mechanic Friendly Software™" operation
- 13 inch color video monitor
- Built-in video tape deck with large digital readout
- Roll around mobile cabinet
- Heavy duty casters
- Heavy gauge steel cabinet
- Vacuum formed plastic organizer boards
- Removable drip pan
- All necessary service tools
- Back lit translucent sign
- GP 1010 "Air Pirate"
- GP 2030 "Spring Pirate"
- GP 2030-A1 optional bolts
- GP 2030-A2 optional bench mount
- All helical spring shoe sizes
- GP 1013 "Pro Spanner Pirate"
- GP 1010-A66 "Adapt-O-Vise"
- GP 1009-S2 "Zip Pirates"
- GP 1012 special pry bar
- GP 1010-A54 Audi 100LS Adaptor
- GP 1010-A56 swivel whip hose
- Type A/B special lube bottles
- GP 1015 "Roto-Pirate"
- GP 1019 pick-up tool

The GP 1010-MES-C Computerized Mobile Shop has a built-in MC10-20K Color Computer that allows the operator access to all critical data. The Computer Ram memory is loaded via built-in cassette deck. It only requires two (2) minutes to load all wheel alignment data, caster, camber, toe in front, and toe in rear; in addition, all torque specs for the strut piston rod nut, cartridge body nut, and front axle nut torque of all strut equipped vehicles.

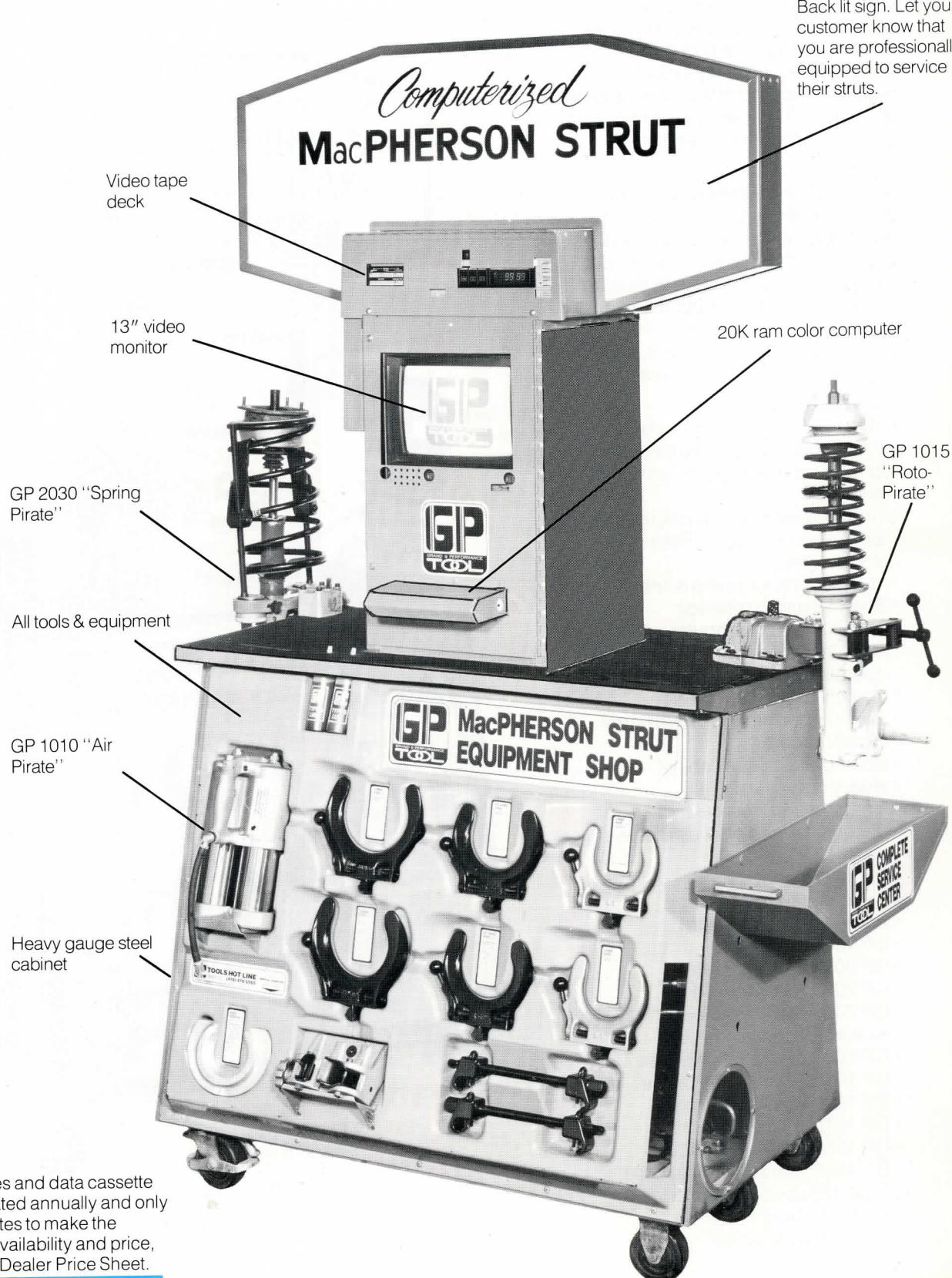
In addition to specification data, there is a Menu Display which relates to the digital readout on the built-in Video Tape Deck. The Menu Display tells the mechanic where he can find specific on the job video training programs on the tape. By using the rapid tape advance feature, the operator can zero in on the specific job and car he is working on. The GP Tool technical trainer will show you how to perform the proper repair with step by step instructions.



• 20 K computer keyboard • cassette program loading • thermal printer



Printer allows instant data retrieval



Video training tapes and data cassette tapes can be updated annually and only require a few minutes to make the changeover. For availability and price, refer to our Yellow Dealer Price Sheet.

GP 1010-MES-CH

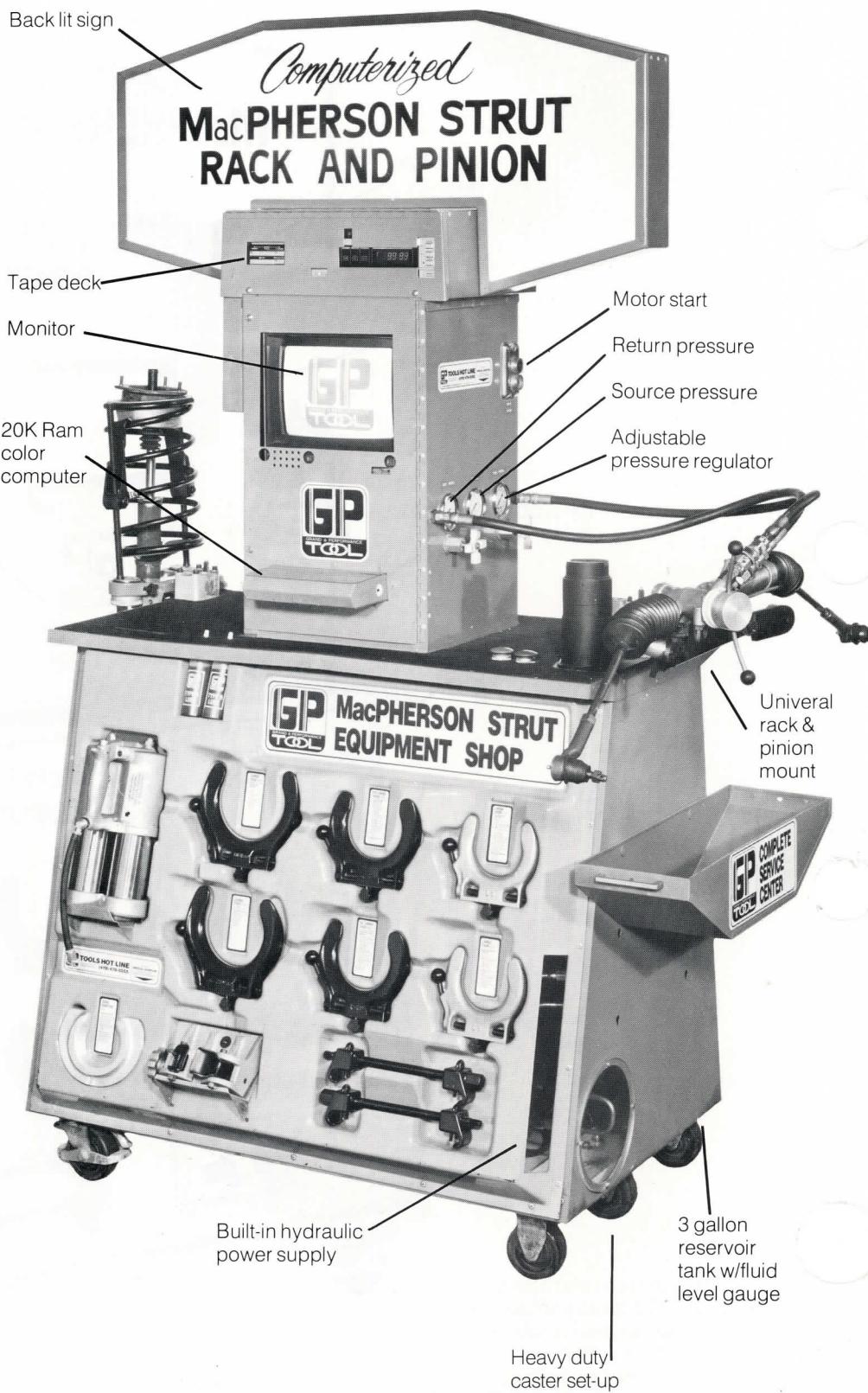
Computerized MacPherson Strut And Rack & Pinion Equipment Shop

GP 1010-MES-CH is the same as the unit described on the previous page with the addition of a built-in hydraulic power supply. A variety of pressure regulators, flow control valves, pressure gauges, and rack and pinion hydraulic hook ups allow for rack and pinion diagnosis.

When installing a pre-rebuilt rack and pinion, it is strongly advised that you first check the unit for operation prior to installation. If you prefer to do your own rebuilding, the video training tapes and 20K Ram Color Computer will take you through the job step by step. Rack and pinion rebuilding is easy, safe, profitable and takes very little time.

Includes

- Hydraulic fluid line hook-ups
- Extra long hydraulic line extensions to hook up directly to the vehicle for diagnosis
- Universal rack & pinion mount that exchanges with your "Roto-Pirate" strut vise head
- Hydraulic motor pump & line
- Built-in 3 gallon reservoir
- 20K Ram color computer with mechanic friendly software operation
- 13 inch color video monitor
- Built-in video tape deck with large digital readout
- Roll around mobile cabinet
- Heavy duty casters
- Heavy gauge steel cabinet
- Vacuum formed plastic organizer boards
- Removable drip pan
- All necessary service tools
- Back lit translucent sign
- GP 1010 "Air Pirate"
- GP 2030 "Spring Pirate"
- GP 2030-A1 optional bolts
- GP 2030-A2 optional bench mount
- All helical spring shoe sizes
- GP 1013 "Pro Spanner Pirate"
- GP 1010-A66 "Adapt-O-Vise"
- GP 1009 safety latch hooks
- GP 1012 special pry bar
- GP 1010-A54 Audi 100LS
- GP 1010-A56 swivel whip hose
- Type A/B special lube bottles
- GP1015 "Roto-Pirate"
- GP 1019 pick-up tool

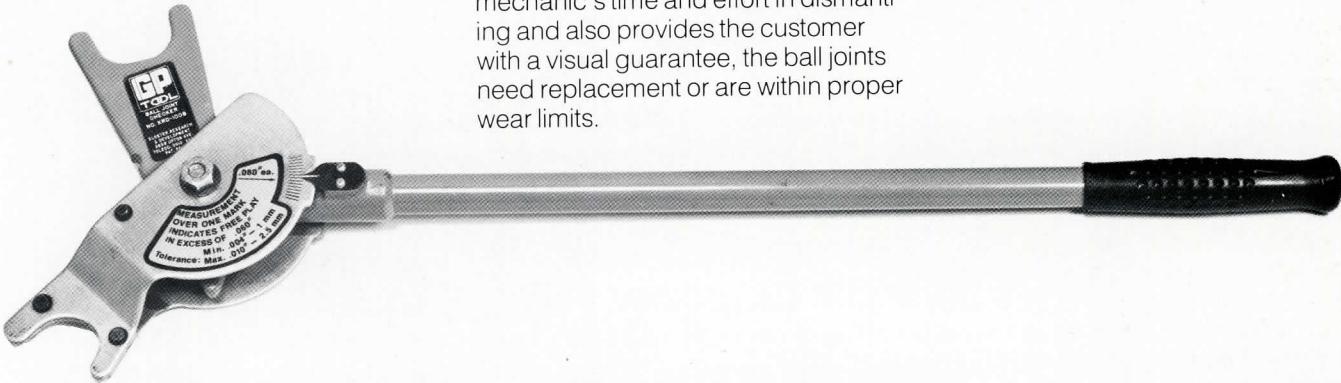


GP 1006 Time Pirate™ / AK1/1008

VW Ball Joint Tool & Ball Joint Checker



GP 1008 Ball Joint Checker



The GP 1008 Ball Joint Checker performs on 1966-1974 Type 1 and Ghia VW's.

This dual purpose tool can save the mechanic's time and effort in dismantling and also provides the customer with a visual guarantee, the ball joints need replacement or are within proper wear limits.

When you buy the GP 1006 & GP 1006-AK1 together, we will give you our GP 1008 Ball Joint Checker for only \$30.00 additional. (Normal Value \$49.95) While quantities last.

GP 1006 "Time Pirate"

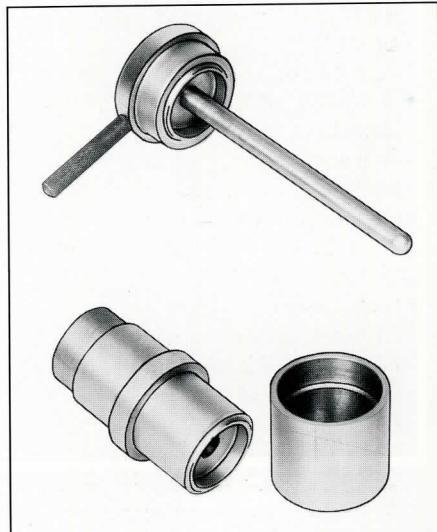
The 1006 "Time Pirate" replacement tool for VW ball joints performs on 1966-1974 VW's, cutting ball joint repair time to less than 45 minutes. (All four out and in)



GP 1006 AK 1 Adaptor Kit

The 1006 AK1 Adapter Kit is used for replacing Super Beetle inboard track arm bushing without dismantling front suspension.

This kit works with the 1006 "Time Pirate" ball joint press and 1006 "D" ring.



Grand Performance Tools

Warranty

Kloster Research & Development, Inc. guarantees its GP Tools against defects in workmanship and materials for 1 year from the date of purchase. If any defect develops during this period GP Tools will repair or replace the tool at no charge; provided the defect is not the result of ordinary wear and tear, abuse or alteration. All care tips must be followed.

Inspection

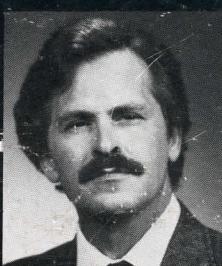
All GP Tools are 100% function-tested prior to leaving the factory. This assures our customers that the tools operate properly when received. If you have any problems please call us at the factory so we can help.

Preventative Maintenance

To assure the longest possible service life of your GP Tools, follow the care tips as described in the letter provided with your tool. Protect your investment.

Service

For service, call first as most problems are lack of lubrication or improper use. If a GP Tool needs factory service, ship freight pre-paid and include your company name, address, telephone number, and name of key contact so that we can call and okay repair cost, if any. Our repair department attempts to repair and return ship within 24 hours.



Kenneth D. Kloster

PATENTS

Some products illustrated in this catalog are covered by one or more of the following United States Patents: 3,862,483, 4,034,960, 4,036,473, 4,256,421, 4,280,602, 4,285,132, 4,339,836, 4,384,405, 4,422,238, 4,431,092, 4,434,978; Canadian Patents: 991,455, 1,050,248; and United Kingdom Patents: 1,521,580. Other Patents Pending.

To Order: Call 800-228-0555 for your closest authorized GP Tool Distributor or Factory Territorial Representative.



Grand Performance Tools
Division of Kloster Research & Development
501 Phillips Avenue, Toledo, Ohio 43612
Designers of Specialized Automotive Tools